

WHAT IS CLAIMED IS:

1. A digital video receiver, which receives and decodes a broadcasting program, creates a predetermined type of data stream and transmits a data stream to a recording/reproducing apparatus connected to the digital video receiver through an interface, the digital video receiver comprising:

 a program information converter operable to convert program information included in the broadcasting program into a format suitable for the recording/reproducing apparatus; and

 a stream generator operable to receive the converted program information and the decoded broadcasting program data, and further operable to create a data stream with the received information and data.

2. A digital video receiver as set forth in claim 1, further comprising a program information analyzer operable to analyze the program information included in the data stream.

3. A digital video receiver as set forth in claim 1, wherein said program information converter comprises a table generator operable to create at least one new table in a suitable format using at least one of a plurality of tables associated with the program information.

4. A digital video receiver as set forth in claim 1, wherein the program information is PSIP (Program and System Information Protocol) information and the broadcasting program is in Advanced Television Systems Committee (ATSC) format.

5. A digital video receiver as set forth in claim 4, wherein at least one of a selection information table (SIT), a discontinuity information table (DIT), a program association table (PAT), and a program map table (PMT) is created using information contained in at least one of a Virtual Channel Table (VCT), Master Guide Table (MGT), System Time Table (STT), Event Information Table (EIT) and Extended Text Table (ETT) tables of the PSIP information.

6. A digital video receiver as set forth in claim 1, wherein the interface is in accordance with the IEEE1394 standard.

7. A stream creating method of a digital video receiver that receives and decodes a broadcasting program, creates a predetermined type of data stream, and then transmits the data stream to a recording/reproducing apparatus connected thereto through an interface, the stream creating method comprising:

(a) converting program information included in the broadcasting program into a format suitable for the recording/reproducing apparatus that is connected to the digital video receiver through the interface; and

(b) creating a data stream comprising the converted program information.

8. A stream creating method as set forth in claim 7, further comprising analyzing the program information in the data stream.

9. A stream creating method as set forth in claim 7, wherein said converting operation comprises creating at least one new table in a suitable format for recording by using at least one among a plurality of tables of the program information.

10. A stream creating method as set forth in claim 7, wherein the program information is Program and System Information Protocol (PSIP) information and the broadcasting program is in Advanced Television Systems Committee (ATSC) format.

11. A stream creating method as set forth in claim 10, wherein at least one of a selection information table (SIT), a discontinuity information table (DIT), a program association table (PAT), and a program map table (PMT) is created using at least one of a Virtual Channel Table (VCT), Master Guide Table (MGT), System Time Table (STT), Event Information Table (EIT) and Extended Text Table (ETT) tables of the PSIP information.

12. A stream creating method as set forth in claim 7, wherein the interface is in accordance with the IEEE1394 standard.

13. A digital receiver for receiving digital data corresponding to a program and transmitting the received data to a recording device in a compatible format, the digital receiver comprising:

an input means for receiving the digital data corresponding to the program, wherein the digital data comprises at least audio data, video data and informational data corresponding to the program;

an information decoder operable to decode the informational data; and
a program converter operable to convert the decoded informational data into the compatible format.

14. A digital receiver as set forth in claim 13, further comprising an information analyzer operable to separate the decoded informational data into a plurality of groups, wherein the groups are distinguished by a type of information regarding the program.

15. A digital receiver as set forth in claim 14, wherein the informational data is PSIP data in accordance with ATSC standards and the groups comprise at least one of EIT and ETT data.

16. A digital receiver as set forth in claim 13, further comprising:
a video decoder operable to decode the video data;
an audio decoder operable to decode the audio data;; and
a bit-stream generator operable to receive the decoded video, audio and informational data and generate a stream of data in a format compatible with the recording device.

17. A digital receiver as set forth in claim 16, wherein the format compatible with the recording device is MPEG2 format.